

EQUIUM 7100M Product Specifications

PLATFORM	
SERIES NAME	EQUIUM 7100M
PART NUMBER	<i>As Listed:</i> See Configuration Page
PROCESSOR	<i>Note: Processors with 100MHz Front Side Bus require matched memory.</i>
Intel Pentium® III	Yes
Available processor speeds	500, 550, 600MHz
Integrated Coprocessor	Yes
MMX support	Yes
ECC support	Yes
Processor Cache (L1) Capacity	32KB: (16KB code; 16KB data)
Bus Speed	100MHz Front Side Bus
LEVEL 2 (L2) CACHE	Yes: 512KB Pipeline Burst SRAM <i>Integrated into CPU</i>
Data Bus Width/Address Bus Width	64-bit/64-bit
Local Clock Bus Speed	Half of the Processor clock
Intel Celeron®	Yes
Available processor speeds	433MHz
Integrated Coprocessor	Yes
MMX support	Yes
ECC support	Yes
Processor Cache (L1) Capacity	32KB: (16KB code; 16KB data)
Bus Speed	66MHz Front Side Bus
LEVEL 2 (L2) CACHE	Yes: 128KB Pipeline Burst SRAM <i>Integrated into CPU</i>
Data Bus Width/Address Bus Width	64-bit/64-bit
Local Clock Bus Speed	Half of the Processor clock
SYSTEM BOARD	
Form Factor	NLX
Chipset	82440BX
Down Components	
I/O Controller	Yes
Graphics Controller	ATI Rage Pro 2X AGP
Audio Controller	Crystal Business Audio CS4235
SYSTEM ARCHITECTURE	
Form Factor	NLX Riser Adapter
PCI BUS (V2.1): (32-bit, 33mhz)	Yes: Choice of either 3 PCI and 1 Shared PCI/ISA "or"
ISA BUS: (16-bit, 8MHz)	5 PCI and 2 PCI/ISA Shared Slots
HARDWARE MONITORING (DMI ASIC)	Yes: LM78 (Voltage, Temperature, Fan Speed, and Chasis Intrusion)
MEMORY: SDRAM	<i>Note: Memory Speed must match Front Side Bus speed (100MHz or 66MHz).</i>
Type	168-pin SDRAM DIMM's with gold-plated contacts, unbuffered
Available Standard Configurations (x*32MB)	64MB or 128MB (<i>As Listed:</i> See Configuration Page)
Maximum	256 MB
ECC/Parity Support	Yes
Local Clock Bus Speed	Varies by CPU speed
Socket type:	(2) 168-pin gold plated DIMM sockets: Accepts 8/16/32/64/128MB memory
BIOS (4Mbit FLASH EEPROM, 4MB)	Yes
USB 1.0	Yes
Advanced Power Management 1.2 (APM)	Yes
PnP 1.0a Support	Yes
DPMS Support	Yes
DDC Support	Yes
DMI 2.0 Compliant	Yes
UDMA – 33	Yes
POST	Yes
ACPI support	Yes
Machine ID	Yes
Toshiba Secure Sleep	Yes

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PART NUMBER	<i>As Listed:</i> See Configuration Page
EXTERNAL INTERFACES	All ports color coded for easy installation
One 9/25-Pin Serial	Yes (NS16C550 UART compatible)
Two Universal Serial Bus ports ¹	Supports 2 USB peripherals without external hub
One 25-Pin Parallel	Yes: (Multimode bidirectional EPP/ECP compatible)
One 15-Pin RGB (SVGA video)	Yes
One (PS/2) Mouse Port	Yes
One (PS/2) 104 Keyboard	Yes
One External Microphone jack	Yes
Line-out (3.5mm mini jack, stereo, 0.7V rms)	Yes
AC IN (Standard 2 prong)	Yes
VIDEO	
Video Memory: SGRAM	4 MB expandable to 8MB (via SO-DIMM socket)
Speed	40ns
Data Bus Width	64-bit
Clock Speed	100 MHz
Graphic Controller	
Standards Supported	DPMS Power Managment, PnP Compliant
Local Bus support	Yes: PCI Bus (33 Mhz, 32-bit)
Controller Chip	ATI Rage Pro Turbo 2X (AGP – Accelerated Graphics Port)
Connected Bus type	AGP 1.0
Bus Speed	133 MHz
64-bit BitBLT Engine	Yes
2D Supported Features	BitBLT, Hardware Cursor (up to 64 x 64 x 2), DirectDraw, Retangle Fill, Line Draw, Polygon Fill, Panning/Scrolling, Bit Masking, Monochrome Expansion, Scssoring and full ROP support
3D Supported Features	Yes: supports 24-bit color
AGP Support	Yes: (133mhz with sidebands and pipelining 64-bit PCI Graphics Accelerator)
Triangle Setup	Yes
Modeling	Fogging, lighting
Shading	Gouraud shading
Rendering	Texture mapping: Bilinear, Trilinear, Anti-aliasing, MIP mapping, Z-Buffering
AGP Texturing (Execute mode)	Yes
Alpha-blending	Yes
Direct3D support	Yes
Open GL support	Yes
Digital Video Accelerator	
YUV Color Space Conversion	Yes: Off-loads conversion from CPU for higher performance full motion video Without compromising picture quality or frame rate.
Scaling/ Interpolation	Yes
Direct Video, DirectMPEG	Yes
Motion Compensation	Yes

SUPPORTED VIDEO RESOLUTIONS ¹ (Non-interlaced unless otherwise specified)	Colors/ Refresh Rate			
	4MB Memory		6MB Memory	
640 x 480	32-bit (4.2B)	200 Hz	32-bit (4.2B)	200 Hz
800 x 600	32-bit (4.2B)	200 Hz	32-bit (4.2B)	200 Hz
1024 x 768	32-bit (4.2B)	140 Hz	32-bit (4.2B)	140 Hz
1152 x 864	32-bit (4.2B)	100 Hz	32-bit (4.2B)	100 Hz
1280 x 1024	24-bit (16.7M)	100 Hz	32-bit (4.2B)	90 Hz
1600 x 1200	16-bit (64K)	76 Hz	24-bit (16.7M)	76 Hz

1. Both ports operate from a single controller allowing 128 devices total, not per port. Throughput for the Universal Serial Bus (USB) is 12Mbits/sec.

- ◆ At maximum resolution (1600 x 1200) the *standard pre-install* will support the following refresh rates:
2MB/8-bit (256)colors/85Hz; 4MB/16-bit (64K) colors/85Hz; 6MB/24-bit (16.7M)/75Hz.

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SERIES NAME			EQUIUM 7100M (PLATFORM con.)		
PART NUMBER			<i>As Listed:</i> See Configuration Page		
SOUND SYSTEM					
Chipsets:			Crystal Business Audio CS4235		
Compatibility			Sound Blaster Pro & Windows Sound System		
FM Synthesis			Yes (Yamaha OPL3 compatible)		
16-bit stereo audio			Yes		
3D Sound/Direct Sound support			Yes		
Built-in microphone			No		
CHASSIS (DESKTOP DESIGN)					
EXPANSION BAY			<u>TOTAL</u>	<u>AVAILABLE</u>	<u>CONFIGURED</u>
	Internal	3.5"	2	1	1 (HDD)
		5.25"	0	0	0
	External	3.5"	2	1	1 (FDD)
<i>As Listed:</i> See Configuration Page 5.25"			3	2	1 (CD-ROM)
EXPANSION SLOTS			<u>TOTAL</u>	<u>AVAILABLE</u>	<u>CONFIGURED</u>
<i>(As Listed: See Configuration Page)</i>					
Option 1: 7-Slot Riser Card			7	7	0
PCI: Full-Length			2	2	0
PCI: Half-Length			3	3	0
PCI/ISA Shared: Full-length			2	2	0
Option 2: 4-Slot Riser Card			4	4	0
PCI: Half-Length			3	3	0
PCI/ISA Shared: Full-length			1	1	0
POWER SUPPLY			<u>7-Slot Riser Configuration</u>		<u>4-Slot Riser Configuration</u>
Watts			300W		200W
Input (Voltage/Frequency)			115VAC/50-60Hz		115VAC/50-60Hz
Switched			Yes		Yes
SUPPORTED SAFETY STANDARDS					
US/Canada			UL 1950 – CSA950-95, 3rd Edition, 7/28/95 CSA22.2 No.950-93, 3rd Edition ICES-003, Issue 2 FCC Class B		
International			IEC 950, 2 nd Edition, 1991 (w/amendments 1,2, & 3)		
Europe			EN 60950 w/Nordic deviation		
CERTIFICATIONS: Windows 95 & Windows NT logo, Novell Client, Energy Star					
HARDWARE COMPLIANT: PC97, PC98 ACPI, Wired For Management (WfM)					
SECURITY					
Hardware			Chasis Lock (key mechanism/padlock) -- <i>Lock not included</i>		
Keyboard/Mouse Lock			Secure sleep		
Miscellaneous			Screen blank		
Password Support			Power-on, Supervisor/Administrator, User, Sleep, Setup Utility & Disable		
DIMENSIONS					
Measurements/ Weight			9.0"W x 20.0"D x 19.5"H		Weight: 38.5 lbs.
BUNDLED SOFTWARE OPTIONS: Windows 95, Windows 98 <i>or</i> Windows NT Workstation v4.0 w/Windows NT Serv. Pack 4; Intel LANdesk Client Manager (v.3.3); Equium On-line User's Guide; Expert Intelligent Help -- Systemsoft SystemWizard (v.3.0)					
CD's Included: Configuration Builder CD					
WARRANTY: 3 Yr. Parts/One Yr. Labor (First Yr. On-site), Years 2 & 3 Parts only; 24 x 7 Dedicated technical support					
ENVIRONMENTAL SPECIFICATIONS			Operating		Non-operating
Temperature:			50°F (10°C) to 95°F (35°C)		14°F (-20°C) to 140°F (60°C)
Packaged: -30°C to 70°C			--		--
Relative Humidity:			30% to 80% non-condensing		10% to 90% non-condensing
Shock:			10G; 1.5G w/CD-ROM installed		60G; 10G w/CD-ROM installed
Vibration (5~150Hz f/30 minutes, each axis)			0.35G		0.75G

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SERIES NAME	EQUIUM 7100M
PART NUMBER	<i>As Listed:</i> See Configuration Page
COMPONENT	
STORAGE	
FDD	3.5" 1.44MB Floppy Disk Drive
HDD (3.5" Half-height Enhanced IDE)	<i>As Listed:</i> See Configuration Page
Type	SMART, Ultra-DMA, Energy Star
Capacity options	4GB, 6.4GB, 8GB, 10GB, 13.6GB, 17.2GB or 20.5GB (See Configuration Page)
RPM	5400
Buffer	256KB
Access Time (average)	9.5msec (read); 15msec (write)
Ultra DMA support	Yes
Burst Data Transfer Rate	Ultra DMA Mode2 (33.3MB/sec); PIO Mode 4 (16.3MB/sec)
Certifications	SMART, UDMA-33, Energy Star
MULTIMEDIA OPTIONS	
Available options	No CD-ROM, 40X CD-ROM or 4X DVD-ROM (DVD-ROM is for storage only)
CD-ROM	40X Max speed
Interface	ATAPI (Enhanced IDE) <i>with 256KB Buffer</i>
Modes supported	PIO Mode4, DMA Mode2 and Ultra DMA/33
Random Access Time	80ms
Sustained Data Transfer Rate	2100~6000KB/Sec(14X~40X), average over 28X
Standards supported	MPC Level 2 & 3
Supported Disk Formats	SO9660 Data Discs, CD-ROM(Mode 1 & Mode 2), Mixed Mode (Audio Combined CD-ROM Disc), CD-ROM/XA(Mode2, Form 1 & Form 2), CD-I/FMV, Video CD, CD-DA, Photo-CD(Single & Multisession), Karaoke CD, CD Extra, CD-RW (Read Only)
DVD-ROM (Toshiba SD-M1202)	4X speed, Region 1 (DVD-ROM is for storage only)
Interface	ATAPI (Enhanced IDE) <i>with 256KB Buffer</i>
Random Access Time	160 ms
Sustained Data Transfer Rate	2,704 KB/sec to 6,534KB/sec
Supported Disk Formats	Multisession Photo-CD, CD-Extra, CD-ROM XA, CD-I, Video CD, CD-G, CD-I Ready, MPC-3 Compliant, Red Book, Yellow Book, Plug and Play
ETHERNET SUPPORT	
Available options	Intel EtherExpress PRO/100B PCI, 3Com Fast EtherLink XL 10/100, or None
Chipset	i82558 (<i>Specs not available for 3COM Option</i>)
Support Network	100Base-TX, 10Base T
Port	RJ 45 (with Connection Status LED and Ethernet Speed LED)
Wake on LAN	Yes
KEYBOARD (PS/2)	
Two Keyboard Options available	<u>Value Keyboard Option</u>
Enhanced 104-key keyboard	Yes
Windows 95 support	Yes
3.5mm Travel	Yes
12 dedicated function keys	Yes
Numeric keypad	Yes
Keyboard tilt	Yes
Detachable palm rest	No
Scroll Lock, CapsLock, NumLock Indicators	Yes
POINTING DEVICE	
PS/2 Mouse	Yes: 2 Button with 6 foot cable